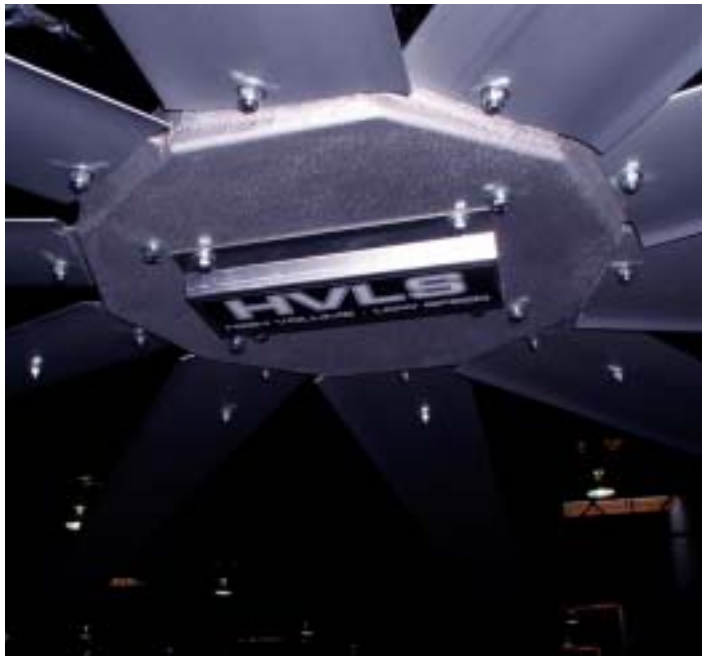
MacroAir™
TECHNOLOGIES

We Move Air™



AUTHENTIC HVLS™ FANS
Since 1995™

Airvolution™ HVLS™ Fans
MaxAir™ HVLS™ Dairy Fans

Airvolution™ HVLS™ Fans From MacroAir Technologies

A recent study conducted by Tom Shultz, a Dairy Advisor at University of California Extension (as reported in DAIRY TODAY, May 2001) documents that HVLS (High Volume Low Speed) fans will push as much air as five high speed fans (our studies indicate 12 or more fans). What's more, the study concluded that when an HVLS fan is compared with five conventional fans, it yielded an *84% energy savings!*

Just think what these two facts add up to. *Energy efficiency and lower costs in times when we need it most.*

Then imagine a gentle cooling breeze on a hot day. And an even and warm airflow on one of the coldest. You'd certainly function better than if it was sweltering or bone chilling. And so would your employees, your livestock, and your equipment. Customers might stay longer, too.

MacroAir Technologies LLC, the original designers and manufacturers of HVLS fans, and today the marketing and applications group for genuine Airvolution™ and MaxAir™ HVLS™ Fans is proud to present its complete line of HVLS (High Volume Low Speed) fans designed to provide cost-effective environmental control in:

- Agriculture (Dairy, Livestock, Fowl)
- Warehouse & Distribution Centers
- Manufacturing & Production Facilities
- Automotive & "Big Box" Retail Centers
- Sports Arenas & Gymnasiums
- Aircraft Maintenance Centers/Hangers
- Convention Centers
- Auditoriums

. . . or in most any high ceiling building where better comfort and ventilation can lead to happier employees, enhanced productivity, and reduced energy costs.

We're also proud to lead the industry with the best warranty in the business – please inquire for details.

MaxAir™ WB 1.5™ HVLS™ Dairy Fans feature our unique Wickerbill™ design to help ensure the comfort of your herd, and improve milk production year round.

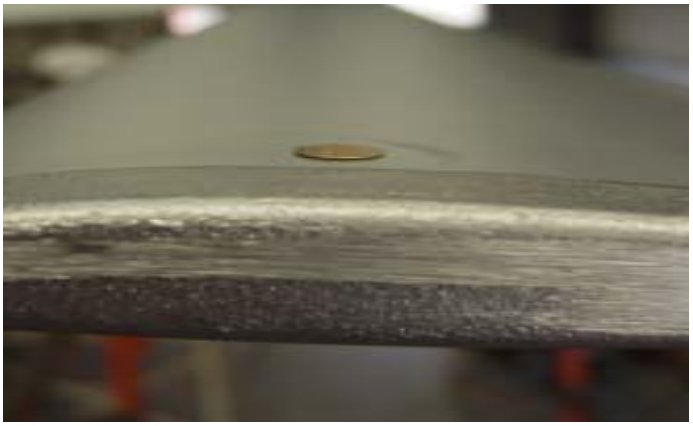
The Airvolution™ Solution

Airvolution and MaxAir HVLS fans are the ideal solution for cooling and ventilation of large open environments. They also provide an effective means to distribute heated air that rises and pools during the colder months and air conditioned air in hot months.

Here are just a few reasons why.

- Unlike small fans that cool only when you're directly in front of them, HVLS fans blanket a very large area with constantly moving air to create an expansive "comfort zone." As a result, an evaporative cooling effect of 6° - 8° occurs throughout the facility, enabling people and livestock to move more freely and productively.
- During heating seasons, HVLS fan technology de-stratifies uneven temperatures that can be in excess of 15° F from ceiling to floor. This results in significant cost savings since the heating system cycles less frequently.
- Airvolution and MaxAir fans provide the only economically feasible way to make the working environment comfortable in barns and industrial/warehouse facilities that operate with always-open doors.
- One Airvolution HVLS fan consumes about the same electricity as one high-speed industrial/alley fan while moving over 12 times the amount of air.
- One Airvolution HVLS fan costs about a nickel an hour to operate.
- Cows and livestock do not bunch up - MaxAir fans move a steady current of air over the herd, resulting in better feeding and increased milk production.
- Better ventilation can reduce spoilage, moving trapped moisture and humidity to avoid decomposition.
- Flying insects stay away, or on the ground. Birds also react to the large, slow moving HVLS airfoil blades and stay out!
- HVLS fans are easy to install and provide maintenance-free, quiet, and non-disruptive air movement.
- Special utility incentives may be available in your area when you install energy efficient Airvolution and MaxAir HVLS fans.

Simply put, we move air efficiently, effectively, economically, ergonomically, and easily. Lots of air.



Airvolution™ and MaxAir™ HVLS™ Products & Specifications

- 20-ft. diameter is the standard size for overhead fans.
- Overhead fans are also available in 8, 10, 12, 14, 16, 18, and 24 ft. diameters.
- Overhead fans come standard with mounting hardware that can be clamped to support beams.
- All fans are matched with engineered control panels to ensure optimal acceleration, speed, and longevity.
- Multiple fans can be run off a single control panel.
- Made in USA.

OVERHEAD FAN CONSTRUCTION

Blades: extruded 6063-T351 aluminum (anodized)
Hub: cast aluminum
Drive: Lenze gear reducer

SPECIFICATIONS: AIRVOLUTION 20-FT OVERHEAD FAN

Overall diameter: 20 ft.
Overall height: 25.5 in.
Weight: 265 lbs.
Number of blades: 10 WhisperFoil™ Standard Airfoil Design
Motor: 1 hp, 1750 rpm, 240/460 vac, 3 phase
Drive ratio: 36:1
Fan speed @ 60Hz: 48 rpm
Power consumption @ 60Hz: 375 watts
Free air displacement: 125,000 cfm
Average air speed: 3 - 7 mph
Effective reach of fan from center: 60 ft.*

* Performance may vary depending on facility.

SPECIFICATIONS: MAXAIR WB 1.5™ 20-FT OVERHEAD DAIRY FAN

Overall diameter: 20 ft.
Overall height: 25.5 in.
Weight: 280 lbs.
Number of blades: 10 Wickerbill™ Airfoil Design
Motor: 1.5 hp, 1750 rpm, 240/460 vac, 3 phase
Drive ratio: 32:1
Fan speed @ 60Hz: 48 rpm
Power consumption @ 60Hz: 950 watts
Free air displacement: 162,000 cfm
Average air speed: 5 - 9 mph
Effective reach of fan from center: 80 ft.*

* Performance may vary depending on facility.

VERTICAL FANS

MacroAir Technologies offers an 8 ft. self-enclosed vertical mount fan for mezzanines and other applications - please inquire.

About MacroAir Technologies LLC

We're a company on a mission. And while to some, HVLS™ fan technology may not seem all that important in the grand scheme of things, the outcomes of our endeavors impacts the lives and well being of our customers and their employees, livestock, and operations in many important ways.

To this end we view ourselves not simply as vendors of air movement technologies and products, but as professional partners committed to improving efficiency of business operations, as well as quality of life. That is, we measure success from both quantitative and qualitative points of view.

Our vision and dedication starts with Walter Boyd, inventor of the HVLS fan technology. A Mechanical Engineer by training, Walt's background as a race car builder, and his penchant to solve problems and "build a better mouse trap," became the foundation for a long line of innovative products, from ultra light-weight roofing equipment to giant mobile TV screens. And of course, Airvolution HVLS fans, and the new MaxAir WB 1.5™ Dairy Fan with its unique Wickerbill™ design - straight out of race car technology - continues the tradition. It's a heritage his son, Ed Boyd, has embraced and carries on with Walt and the able crew at MacroAir Technologies today.

It continues with our company-wide commitment to responding to specific customer needs and with providing accurate and appropriate applications assistance. Our approach is to help drive your decision-making process based upon sound and proven engineering, scientific, and business logic. Because as easy as it is to understand the Airvolution™ HVLS™ system, our expertise and experience proves it's quite another matter to apply it to maximum effect. And because of our experience, we know how to get it right. We invented HVLS technology. We manufacture authentic Airvolution HVLS fans. We have installed them in multiple applications.

Our relationship with customers doesn't stop once the installation is complete. We're continually seeking better ways to improve our products, as well as methods and tactics that might enhance the performance of those we've already installed.

Rest assured we don't take ourselves too seriously. In fact, you'll find working with us is as fun and easy as it is fulfilling, when together we solve your airflow problems.

Isn't that the kind of company you'd feel most comfortable doing business with?

Contact us today at 1-(866) MOVEAIR (email: info@macro-air.com), and see what we can do for you.

Airvolution™ HVLS™ Fans & MaxAir™ HVLS™ Dairy Fans Are Productivity Tools That Can Help Make Your Business More Profitable!

- Efficient: Our HVLS fans move up to 12 times the air of high speed industrial or alley fans and promote a more even air flow throughout your facility.
- Effective: Non-disruptive air flow gently cools during warm months, reduces heat system cycling during cold periods, and ventilates large spaces.
- Economical: About a nickel an hour to operate. Thanks to significant savings in energy costs, they can pay for themselves within a very short period!
- Ergonomical: Added comfort makes for happier employees and livestock, encouraging productivity.
- Easy: A breeze to install! Fans come complete with installation hardware PLUS the applications expertise of the inventors of HVLS technology.

MacroAir™ TECHNOLOGIES

We Move Air™

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